

CURRICULUM VITAE

Name: Kary B. Mullis, Ph.D.

Born: December 28, 1944
Lenoir, North Carolina

EDUCATION

- 1962-66 Georgia Institute of Technology
B.S. Chemistry
- 1966-72 University of California, Berkeley
Ph.D. Biochemistry
Advisor: John B. Neilands
Research: Structure and organic synthesis of microbial iron transport agents
- 1972 Lecturer, Department of Biochemistry
University of California, Berkeley
- 1973-77 Post-doctoral Fellow, Pediatric Cardiology
University of Kansas Medical School
Advisors: Richard Zakheim and Leone Mattioli
Research: Angiotensin and pulmonary vascular physiology
- 1977-79 Post-doctoral Fellow, Pharmaceutical Chemistry
University of California, San Francisco
Advisor: Wolfgang Sadee
Research: Endorphins and the opiate receptor

EMPLOYMENT

- 1979-84 Scientist, Department of Chemistry
Cetus Corporation, Emeryville, California
Research: Oligonucleotide synthesis and chemistry
- 1984-86 Scientist, Department of Human Genetics
Cetus Corporation, Emeryville, California
Research: Oligonucleotide synthesis and chemistry

1986-88

Director of Molecular Biology
Xytronyx, Inc., San Diego, California
Research : DNA Technology
Photochemistry and Photobiology

1987-2001

Private Consultant : Nucleic Acid Chemistry
*Actively 2001

Abbott Laboratories, N Chicago, IL
Aguoron Institute, La Jolla, CA
Ambergene Corporation, San Francisco, CA
Amersham, Arlington Heights, IL
Amgen, Boulder, CO
Angenics, Cambridge, MA
*Applied Biosystems, Foster City, CA
Beckman Instruments, Brea, CA
Biosearch, Inc., San Rafael, CA
Campbell and Flores, San Diego, CA : Orchid Biosciences
Communitech, Yorktown Heights, NY
Cellpro, Inc., Bothell, WA
Cetus Corporation, Emeryville, CA
Chiron Corporation, Emeryville, CA
Cytometrics, San Diego, CA
Diatron Corporation, San Diego, CA
DuPont (Bernard, Rothwell & Brown), Washington, DC
Eastman Kodak, Rochester, NY
Ericomp, Inc., San Diego, CA
General Atomics, San Diego, CA
Integrated DNA Technologies, Iowa City, IA
McCutchen, Doyle, Enersen & Brown, San Francisco, CA: Cetus
Medenica Clinic, Hilton Head Island, SC
Milligen/Biosearch, Concord, MA
Molecular Devices, Inc., Menlo Park, CA
National Cancer Institute, Bethesda, MD
Pennie & Edmonds, New York, NY: Roche
*Orrick, Herrington and Sutcliffe:PE Applied Biosystems
Perkin Elmer, Foster City, CA
Perkin-Elmer-Cetus, Norwalk, CT
Research Genetics, Huntsville, AL
Schleicher and Schuell, Keene, NH
Specialty Laboratories, Santa Monica, CA
Viagene, San Diego, CA
Vyrex Corporation, San Diego, CA
Xytronyx, San Diego, CA

1991-2001

Expert Witness/Consultant: Forensic DNA

Jesse Ray Moffett, Petitioner vs. Superior Court of the
State of California, County of San Diego, Respondent and
The People of the State of California, Real Party In
Interest, Case Numbers CR 103094 (Superior Court)

and D 014572 (Court of Appeal).

Superior Court of the State of California in and for the County of Tulare: The People of the State of California vs. Randy Schlaepfer and William McIntosh, Case Number 93-33026.

Superior Court of the State of California in and for the County of Solano: The People of the State of California vs. Michael Van Wynn, Sr., Case Number C36299.

Superior Court California, County of Ventura: People of the State of California, Plaintiff vs. Dennis Fredman, Case Number CR-30682.

Superior Court of the State of California for the County of Los Angeles: The People of California vs. Orenthal James Simpson, Case Number BA097211.

Supreme Court of Queensland, AUSTRALIA: The Crown Vs. Wayne Edward Butler, July 1999 – Feb 2001.

1992-93	Vice President Research Atomic Tags, Inc., La Jolla, CA
1994-present	Distinguished Visiting Professor, The University of South Carolina, College of Science and Mathematics, Columbia, SC
1997-1998	VP Molecular Biology VYREX Corporation, La Jolla, CA.
1999-present	VP Molecular Biology, Board of Directors Burstein Technologies, Irvine, CA.

BOARD OF SCIENTIFIC ADVISORS

Valigen, N.V., Newtown, PA
LabBook.com, McLean, Virginia
Tem Fat Hing Fung Biotechnology Investment Group, Hong Kong
All Optical Networks, Inc., San Diego, California

BOARD OF DIRECTORS

IDT Venture Group, Boca Raton, FLA
KINGS LABORATORIES, Columbia, S. C.

AWARDS

- May 1990 **PREIS BIOCHEMISCHE ANALYTIK AWARD**
German Society of Clinical Chemistry and Boehringer
Mannheim, for the Invention of the Polymerase Chain Reaction. Munich.
- Oct 1990 **WILLIAM ALLAN MEMORIAL AWARD**
American Society of Human Genetics for Outstanding Work
in Human Genetics.
Cincinnati, OH
- Jun 1991 **VIRAL HEPATITIS RESEARCH FOUNDATION OF JAPAN AWARD**
For Invention of the Polymerase Chain Reaction.
Tenth Anniversary of VHRF.
Tokyo, Japan
- Sep 1991 **R&D MAGAZINE 1991 SCIENTIST OF THE YEAR**
Chicago, IL
- Oct 1991 **GAIRDNER FOUNDATION INTERNATIONAL AWARD**
Toronto, Canada
- Nov 1991 **NATIONAL BIOTECHNOLOGY VENTURES AWARD**
National Conference on Biotechnology Ventures.
San Francisco, CA
- Feb 1992 **INVENTOR OF THE YEAR AWARD**
Peninsula Intellectual Property Law Association.
Palo Alto, CA
- May 1992 **CETUS CORPORATION BIOTECHNOLOGY RESEARCH AWARD**
American Society for Microbiology.
New Orleans, LA
- Nov 1992 **CALIFORNIA SCIENTIST OF THE YEAR**
California Museum of Science and Industry.
Los Angeles, CA
- Nov 1992 **ROBERT KOCH PRIZE**
Robert Koch Foundation.
Bonn, Germany
- Nov 1992 **JOHN SCOTT AWARD**
Board of Directors of the City Trusts.
Philadelphia, PA
- Apr 1993 **JAPAN PRIZE**
Science and Technology Foundation of Japan, Tokyo.

- Jul 1993 **OUTSTANDING CONTRIBUTIONS TO CLINICAL CHEMISTRY AWARD**
American Association for Clinical Chemistry.
New York, NY
- Aug 1993 **THOMAS ALVA EDISON AWARD**
Science Innovation 1993.
Boston, MA
- Aug 1993 **KIMBLE METHODOLOGY AWARD**
Conference of Public Health Laboratories.
San Francisco, CA
- Dec 1993 **NOBEL PRIZE IN CHEMISTRY**
Stockholm, Sweden
- Feb 1994 **DISTINGUISHED SERVICE AWARD**
Miami Bio/Technology Winter Symposium
Award Sponsored by: Warner-Lambert Company,
Parke-Davis Pharmaceutical Research Division
- Apr 1994 **GUSTAVUS ESSELEN AWARD FOR CHEMISTRY IN THE PUBLIC INTEREST**
American Chemical Society.
Harvard, MA
- May 1994 **HONORARY DOCTOR OF SCIENCE DEGREE**
University of South Carolina.
Columbia, SC
- Jun 1994 **GOLDEN PLATE AWARD**
American Academy of Achievement.
Las Vegas, NV
- Sept 1998 **Induction NATIONAL INVENTORS HALL OF FAME**
Akron, OHIO
- Oct 1998 **RONALD H. BROWN AMERICAN INNOVATOR AWARD**
Washington, D. C.
- Nov 1999 **KARL LANDSTEINER MEMORIAL AWARD**
American Association of Blood Banks
San Francisco, California

EDITORIAL BOARD MEMBER

BIOTECHNIQUES, Eaton Publishing Co.
Natick, MA

PCR METHODS AND APPLICATIONS, Cold Spring Harbor Laboratory Press
Cold Spring Harbor, NY

BIOTECHNOLOGY, Macmillan
New York, NY

U.S. PATENTS

Sheldon, E., Levensen C., Mullis, K. and Rapaport, H.
Process for Labeling Nucleic Acids Using Psoralen Derivatives
US 4,582,789 Apr 15, 1986

Sheldon, E., Levensen, C., Mullis, K. and Rapaport, H.
Process for Labeling Nucleic Acids and Hybridization Probes
US 4,617,261 Oct 14, 1986

Mullis, K.

Process for Amplifying Nucleic Acids
US 4,683,202 Jul 28, 1987

Mullis, K., Erlich, H., Arnheim, N., Horn, G., Saiki, R. and Scharf, S.
Process for Amplifying, Detecting, and/or Cloning Nucleic Acid Sequences
US 4,683,195 Jul 28, 1987

Levensen, C. and Mullis, K.

Precursor to Nucleic Acid Probe
US 4,705,886 Nov 10, 1987

Levensen, C. and Mullis, K.

Precursor to Nucleic Acid Probe
US 4,751,313 Jun 14, 1988

Levensen, C. and Mullis, K.

Precursor to Nucleic Acid Probe
US 4,754,065 Jun 28, 1988

Mullis, K., Erlich, H., Arnheim, N., Horn, G., Saiki, R. and Scharf, S.

Process for Amplifying, Detecting, and/or Cloning Nucleic Acid Sequences Using a Thermostable Enzyme

US 4,800,159 Jan 24, 1989

Levensen, C. and Mullis, K.

Carbamic Acid Ester Useful for Preparing a Nucleic Acid Probe
US 4,803,297 Feb 7, 1989

Mullis, K.

System for the Visualization of Exposure to Ultraviolet Radiation
US 5,028,792 Jul 2, 1991

Mullis, K.

Rapid Purification of DNA
US 5,187,083 Feb 16, 1993

Erlich, H., Horn, G., Saiki, R. and Mullis, K.

Process for Detecting Specific Nucleotide Variations and Genetic Polymorphisms Present in
Nucleic Acids
US 5,468,613 Nov 21, 1995

INVITED LECTURES

- Jun 1986 Cold Spring Harbor 51st Symposium on Quantitative Biology
Cold Spring Harbor, NY
- Dec 1986 Institute for Molecular Genetics, Baylor College of Medicine
Houston, TX
- Jan 1987 Hereditary Disease Foundation
Santa Monica, CA
- Apr 1987 Environmental Mutagen Society 18th Annual Meeting
Biotechnology Symposium
San Francisco, CA
- Apr 1987 American Medical Association Conference
DNA Probes in the Practice of Medicine
Washington, DC
- May 1987 Clinical Pathology Grand Rounds.
University of California
San Francisco, CA
- Nov 1987 DNA PROBES: Market Challenges and Opportunities
Communitech Executive Conference
San Diego, CA
- Nov 1987 100th Anniversary Clinical Laboratory Symposium on DNA Probes in Diagnostic
Medicine
Genesee Hospital
Rochester, NY
- May 1988 Center for Molecular Genetics
University of California
San Diego, CA
- Oct 1988 AACC 3rd San Diego Conference

Practical Aspects of Molecular Probes
San Diego, CA

- Dec 1988 Banbury Center Conference on the Polymerase Chain Reaction
Cold Spring Harbor, NY
- Dec 1988 Centers for Disease Control, Sigma Xi Lecture
Atlanta, GA
- Feb 1989 Scripps Clinic and Research Foundation
11th Annual Conference on Clinical Laboratory Molecular Analysis
San Francisco, CA
- Mar 1989 University of Rochester School of Medicine and Dentistry
Rochester, NY
- Apr 1989 UCLA Symposium on Molecular and Cellular Biology
Polymerase Chain Reaction
Keystone, CO
- May 1989 Presidential Lecture, Annual Meeting of the American Thoracic
Society and the American Lung Association
Cincinnati, OH
- Jun 1989 8th International Congress of Clinical Enzymology
Toronto, Canada
- Jun 1989 Toronto General Hospital, Department of Clinical Biochemistry
Toronto, Canada
- Jun 1989 National Academy of Clinical Biochemistry
Toronto, Canada
- Jul 1989 8th European Congress of Clinical Chemistry and 21st National
Congress of the Italian Society of Clinical Biochemistry
Milan, Italy
- Jul 1989 Clinical Diagnostics into the 1990's
Communitech Health Care Conference
Atlanta, GA
- Sep 1989 Paine Webber Biopharmaceuticals 1989 Conference
San Diego, CA
- Sep 1989 University of Naples, Department of Biochemistry and Medical Biotechnology
Four Lecture Series
Naples, Italy
- Nov 1989 American Medical Association Conference on DNA Probes in the Practice of
Medicine
San Diego, CA

Dec 1989 **Advanced Concepts in Biology, Salon du Laboratoire**
Paris, France

Feb 1990 **Clinical Laboratory Molecular Analysis**
San Diego, CA

May 1990 **Preis Biochemische Analytik Lecture**
Munich, Germany

May 1990 **American Society for Microbiology**
Anaheim, CA

Jul 1990 **International Congress of Clinical Chemistry**
San Francisco, CA

Jul 1990 **Communitech Health Care Conference**
San Francisco, CA

Sep 1990 **INSERM Workshop 30, PCR Methodological Problems**
Le Visinet, France

Oct 1990 **WILLIAM ALLAN MEMORIAL AWARD Lecture**
American Society of Human Genetics
Cincinnati, OH

Oct 1990 **Genome Sequencing Conference II**
Hilton Head, SC

Nov 1990 **9th Ernst Klenk Conference on "Recent Advances in the Genetics of Human Disease."**
Cologne, Germany

Nov 1990 **Keynote Address at the 5th San Diego Conference on Nucleic Acids**
American Association for Clinical Chemistry.
San Diego, CA

Apr 1991 **University of Utah, Department of Pharmacology and Toxicology**
Salt Lake City, UT

May 1991 **Juan March Foundation Lecture Course on "The Polymerase Chain Reaction"**
Cuenca, Spain

May 1991 **Departamento de Genetica Molecular, Consejo Superior de Investigaciones Cientificas**
Barcelona, Spain

May 1991 **Viral Research Foundation of Japan**
Tokyo, Japan

May 1991 **Japan Health Sciences Foundation**

Tokyo, Japan

- Jul 1991 Gorden Research Conference on Organic Reactions and Processes
New Hampton, NH
- Oct 1991 Institute for Molecular Biology, McMaster University
Hamilton, Ontario Canada
- Oct 1991 Gairdner Foundation International Award Lecture
Faculty of Medicine, University of Toronto
Toronto, Ontario Canada
- Oct 1991 Banbury Conference on Intellectual Property and Biotechnology
Cold Spring Harbor, NY
- Jan 1992 American Intellectual Property Law Association
15th Annual Institute.
La Quinta, CA
- Mar 1992 Sigma Xi, Roche Research Chapter.
Nutley, NJ
- May 1992 CETUS AWARD Lecture
American Society of Microbiology
New Orleans, LA
- Jun 1992 California State Bar Intellectual Property Section
La Jolla, CA
- Jul 1992 AAAS Science Innovation 1992
San Francisco, CA
- Nov 1992 ROBERT KOCH AWARD Lecture
University of Bonn
Bonn, Germany
- Nov 1992 University of Cologne
Cologne, Germany
- Nov 1992 University of Giessen, Virology Institute
Giessen, Germany
- Nov 1992 UNIDA International Course: PCR Applications
Catholic University
Santiago, Chile
- Mar 1993 DNA and Biotechnology: A Celebration of 40 Years of the DNA Double Helix
Cold Spring Harbor Laboratory
Cold Spring Harbor, NY
- Aug 1993 THOMAS ALVA EDISON AWARD Lecture
AAAS Science Innovation 1993

Boston, MA

- Oct 1993 13th Annual William Monroe Spicer Memorial Lecture in
Chemistry, Georgia Institute of Technology
Atlanta, GA
- Dec 1993 NOBEL PRIZE AWARD Lecture
Stockholm, Sweden
- Feb 1994 Miami Bio/Technology Winter Symposia. Advances in Gene
Technology: Molecular Biology and Human Disease
Miami, FL
- Apr 1994 GUSTAVUS ESSELEN AWARD Lecture
American Chemical Society
Harvard, MA
- Apr 1994 European Society for Clinical Investigation
28th Annual Scientific Meeting
Toledo, Spain
- May 1994 Commencement Address
University of South Carolina Commencement Exercises
Columbia, SC
- May 1994 Annual Meeting of the Friends of the State Museum
South Carolina State Museum
Columbia, SC
- May 1994 COMETT Course: PCR Technology and its Applications
Accademia dei Fisiocritici.
Siena, Italy
- May 1994 The Sunday Times Nobel Laureate Lecture
London, England
- Jun 1994 American Association for the Advancement of Science
Pacific Division Meeting, HIV/AIDS Symposium
Cal State University, Chico
Chico, CA
- Jul 1994 Chinese University of Hong Kong/Wei Lun Visiting Professor
"Chemical Synthesis of Nucleotides and PCR Technology."
Hong Kong
- Jul 1994 CONNECT - University of California at San Diego
Director's Luncheon
La Jolla, CA
- Sep 1994 Perkin-Elmer - Cold Spring Harbor Laboratory
A Decade of PCR

In Celebration of Ten Years of Amplification
Cold Spring Harbor, NY

- Sep 1994 Premio Philip Morris per la Ricerca Scientifica e Tecnologica.
Rome, Italy
- Nov 1994 The Marlene A. DeLuca Memorial Lecture
University of California at San Diego
San Diego, CA
- Nov 1994 Miami Bio/Technology European Symposia
Monte Carlo, Monaco
- Mar 1995 University of California San Diego, UCSD Bookstore
Wednesday Night Live Lecture
San Diego, CA
- Apr 1995 California State University Long Beach
20th Annual Nobel Laureate Lecture
Long Beach, CA
- Jun 1995 International Academy of Tumor Marker Oncology
12th International Conference on Human Tumor Markers
New York, NY
- Aug 1995 Texas A&M University, College of Veterinary Medicine
Horizons in Scientific Excellence
1995 Graduate Student Association Fall Forum
College Station, TX
- Sep 1995 Washington Biotechnology Foundation
Forensic DNA Symposium
Seattle, WA
- Sep 1995 California State University San Marcos
Fall 1995 Arts & Lectures Series
Musings of a Nobel Laureate
San Marcos, CA
- Oct 1995 Armed Forces District of The American College of Obstetricians and Gynecologists
and Association of Women's Health, Obstetric and Neonatal Nurses
34th Annual ACOG Conference, 17th Annual AWHONN Conference
San Diego, CA
- Oct 1995 HEAL: Health-Education-AIDS LIAISON
Los Angeles, CA
- Jan 1996 International Symposium on Advances in Head and Neck Cancer
Kiel, Germany
- Feb 1996 Thomas Jefferson University, Jefferson Cancer Institute

Philadelphia, PA

- May 1996** **Corning Life Science, Inc. - Science Expo '96**
Chicago, IL
- Oct 1996** **Entheobotany - Shamanic Plant Science**
San Francisco, CA
- May 1997** **Commencement Address**
California State University Sacramento
School of Engineering and Computer Science
Sacramento, CA
- Oct 1997** **International Symposium: AIDS Without HIV**
Bucaramanga, Colombia, SA.
- Jun 1998** **Biotechnology 2001 Conference**
Virginia Polytechnic Institute
Blacksburg, VA
- Aug 1998** **Evolution and Consciousness Symposium**
Fundacion General de la Universidad Complutense
El Escorial, Spain
- Oct 1998** **Health Education AIDS Liaison**
Toronto, Canada
- Oct 1998** **Problems in Professional Science in the late Twentieth Century**
University of South Carolina
Columbia, South Carolina
- Nov 1998** **International Symposium on Biotechnology**
Korea University
Seoul, Korea
- Nov 1998** **Detection of Biological Weapons**
Korean Military Academy
Seoul, Korea
- Dec 1998** **The Power of Innovation**
Ten Nobels for the Future
International Conference
Milan, Italy
- Mar 1999** **Lecture, Elon College**
Elon College, North Carolina
- Mar 1999** **Lecture, Charles Drew University**
Los Angeles, California
- Apr 1999** **Lecture, Lander University**

Greenwood, South Carolina

- Jun 1999** **Lecture, University of California at Davis
Davis, California**
- Jul 1999** **Presentation, DARPA, Defense Sciences Research Council
La Jolla, California**
- Sep 1999** **Gene Medicine Symposium
Industrial Investment Council of Germany
Washington, DC**
- Nov 1999** **Karl Landsteiner Memorial Award Lecture
American Association of Blood Banks 52nd Annual Meeting
San Francisco, CA**
- Feb 2000** **Lecture, Doane College
Crete, NE**
- Mar 2000** **The 2000 James Patterson Memorial Lecture
Tampa, FL**
- May 2000** **Commencement Address, Lackawanna Junior College
Scranton, PA**
- June 2000** **50th Jubilee Commemorative Nobel Lecture
Lindau, Germany**
- July 2000** **Lecture, The Freie Universitat Berlin
Berlin, Germany**
- Sept 2000** **Minnesota Mining Manufacturing
Engineering Systems Technology Center
St. Paul, MN**
- Oct 2000** **Italian Biotec Award, Selection Committee Chairman and Lecture
Milan, Italy**
- Nov 2000** **Keynote speaker
Research Centers for Minority Institutions Int. Symp.
San Juan, PR**
- Nov 2000** **Millenium Lecture
Mauritius Sugar Research Institute
Mauritius**
- April 2001** **Colorado School of Mines
Millenium Lecture
Golden, CO**

April 2001 University of Maryland
Keynote speaker
Graduate Research Conference

BOOKS

Mullis, K. Ferre, F. and Gibbs, R. editors

The Polymerase Chain Reaction
Birkhauser 1994 Boston

Mullis, K.

Dancing Naked in the Mind Field
Pantheon/Random House 1998 New York

PUBLICATIONS

Mullis, K. B., Cosmological Significance of Time Reversal, *Nature* 218 : 663 (1968)

Mullis, K. B., Schizokinen: Structure and Synthetic Work, DISSERTATION, University of California, Berkeley (1973)

Mullis, K., Pollack, J. and Neilands, J., Structure of Schizokinen, an Iron-Transport Compound from *Bacillus gaterium*, *Biochemistry* 10: 1071 (1971)

Molteni, A., Zakheim, R., Mullis, K. and Mattioli, L., The Effects of Chronic Alveolar Hypoxia on Lung and Serum Angiotensin-I-Converting Enzyme Activity, *Proc. Soc. Exp. Biol. Med.* 147: 263 (1974)

Mattioli, L., Zakheim, R., Molteni, A. and Mullis, K., Angiotensin-I-Converting Enzyme Activity in Idiopathic Respiratory Distress Syndrome in the Newborn and Experimental Alveolar Hypoxia, *Journal of Pediatrics* 87: 976 (1975)

Molteni, A., Mullis, K., Mattioli, L., Zakheim, R. and Bartley, J., Prevention of Pulmonary Vascular Changes of Chronic Alveolar Hypoxia by Inhibition of Angiotensin-I-Converting Enzyme, *Laboratory Investigations* 33: 57 (1975)

Molteni, A., Mullis, K., Zakheim, R. and Mattioli, L., Angiotensin-I-Converting Enzyme and Angiotensin II Levels in Women Receiving Oral Contraceptive J. *Clin. Endocrinol. and Metab.* 42: 588 (1976)

Molteni, A., Mullis, K., Zakheim, R. and Mattioli, L., Effects of Changes in Dietary Sodium on Lung and Serum Angiotensin-I-Converting Enzyme in the Rat, *Laboratory Investigations* 35 : 569 (1976)

Mullis, K.B., The Samuelson Case, Medical Dimensions 5 : 36 (1976), FICTION

Mullis, K., Perry, D., Finn, A., Stafford, B. and Sadee, W., Morphine Persistence in Rat Brain and Serum After Single Doses, *J. Pharm. Exp. Ther.* 208 : 228 (1979)

- Perry, D., Mullis, K., Oie, S. and Sadee, W., Opiate Antagonist Receptor Binding In Vivo: Evidence for a New Receptor Binding Model, *Brain Research* 199 : 49 (1980)
- Winkler, M., Mullis, K., Barnett, J., Stroynowski, I. and Yanofsky, C., Transcription Termination at the Tryptophan Operon Attenuator is Decreased In Vitro by an Oligomer Complementary to a Segment of the Leader Transcript, *Proc. Nat. Acad. Sci.* 79 : 2181 (1982)
- Stetler, D., Das, H., Nunberg, J., Saiki, R., Sheng-Dong, R., Mullis, K., Weissman, S. and Erlich, H., Isolation of a cDNA Clone for the Human HLA-DR Antigen Alpha-Chain by Using a Synthetic Oligonucleotide as a Hybridization Probe, *Proc. Nat. Acad. Sci.* 79 : 5966 (1982)
- Das, H., Biro, A., Mullis, K., Lawrence, S. and Weissman, S., The Cloning and Structure of the Heavy Chain Gene of HLA-DR in IR Genes Past, Present, and Future, *Humana Press* (1983)
- Brown, S., Mullis, K., Levensen, C. and Shafer, R., Aqueous Solution Structure of an Intercalated Actinomycin D d-ATGCAT Complex by Two-dimensional and One-dimensional Proton NMR, *Biochemistry* 23 : 403 (1984)
- Saiki, R., Scharf, S., Faloona, F., Mullis, K., Horn, G., and Erlich, H., Enzymatic Amplification of Beta-Globin Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia, *Science* 230 : 1350 (1985)
- Mullis, K., Faloona, F., Scharf, S., Saiki, R., Horn, G. and Erlich, H., Specific Enzymatic Amplification of DNA In Vitro: The Polymerase Chain Reaction, *Cold Spring Harbor Symposium on Quantitative Biology* 51 : 263 (1986)
- Saiki, R., Bugawan, T., Horn, G., Mullis, K. and Erlich, H., Analysis of Enzymatically Amplified Beta-Globin and HLA-DQ-Alpha DNA with Allele-Specific Oligonucleotide Probes, *Nature* 324 : 6093 (1986)
- Erlich, H., Horn, G., Saiki, R., Scharf, S., Mullis, K. and Bugawan, T., Genetic Analysis Using Amplification of Specific Genomic Sequences, *Current Communications In Molecular Biology: DNA Probes; Applications in Genetic and Infectious Disease and Cancer*, Cold Spring Harbor Laboratory Press (1986)
- Kwok, S., Mack, D., Mullis, K., Poiesz, B., Ehlich, G., Blair, D., Friedman-Klein, A. and Sninsky, J., Identification of Human Immunodeficiency Virus Sequences by Using In Vitro Enzymatic Amplification and Oligomer Cleavage Detection, *J. Virol.* 61(5) : 1690 (1987)
- Mullis, K. and Faloona, F., Specific Synthesis of DNA In Vitro Via a Polymerase Catalyzed Chain Reaction, *Methods in Enzymology.* 155 : 335 (1987), Reprinted in *Recombinant DNA Methodology.* Ed. R. Wu, L. Grossman and K. Moldave. Academic Press (1989)
- Saiki, Gelfand, Stoffel, Scharf, Higuchi, Horn, Mullis, Erlich., Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase, *Science* 239 : 487 (1988)
- Mullis, K., The Polymerase Chain Reaction: Why it Works, *Current Communications in Molecular Biology*, Cold Spring Harbor Laboratory Press (1989)
- Mullis, K., The Unusual Origin of the Polymerase Chain Reaction, *Scientific American* 262 : 56 (1990), Reprinted in *Science in the Twentieth Century: Scientific American Special Issue*, April 1991
- Mullis, K., Target Amplification for DNA Analysis by the Polymerase Chain Reaction, *Annales De Biologie Clinique* 48 : 579 (1990)
- Mullis, K., Rapid Purification of DNA from Blood, *Juan March Foundation Lecture Course on the Polymerase Chain Reaction, Serie Universitaria* 263 : 13 (1991)

Mullis, K., The Polymerase Chain Reaction in an Anemic Mode: How to Avoid Oligodeoxyribonucleic Fusion, PCR Methods and Applications 1 : 1 (1991)

Mullis, K., The Unlikely Origin of the Polymerase Chain Reaction, Cell and Molecular Biology, Ed. S. L. Wolfe, Wadsworth Publishing Co., Belmont, CA (1992)

Mullis, K., The Polymerase Chain Reaction, Les Prix Nobel (1993) and Angew. Chem. Int. Ed. Engl., 1994/33 (1994)

Mullis, K., PCR and Scientific Invention : The Trial of DuPont vs. Cetus, The Polymerase Chain Reaction, Mullis, K., Ferre, F., and Gibbs, R. – Editors, Birkhauser (1994)